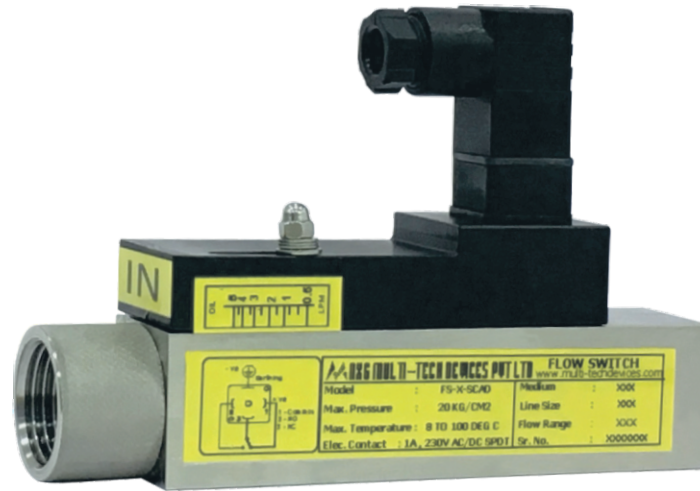


FS Series - Miniature Series

MODEL : FS-2/3/4SCAD

Images used are for reference purpose only



Key features

- Hermetically sealed electrical contacts. • Better accuracy over the range.
- Adjustable flow setting. • Low maintenance. • Viscosity Compensated Design

Applications

- Industrial monitoring application • Oil Monitoring in Lubrication and hydraulic systems. • Flow switching in High Pressure Systems • Flow Switching in Cooling Plants • Coolant Monitoring in Machine Tools • High Pressure Flow Rate monitoring.

General

NXG MTD make Piston type flow switches are designed for positive detection of fluid flow through the process. Herein the spring supported magnetic piston is displaced by the fluid force. This displacement actuates reed switch causing to switch over the contacts. FS series models provides adjustability over wide range. These are suitable for water, lubricating oils, gas/air etc.

Technical specifications:

Scale Tolerance	±3~5% of full scale
Max. System Pressure	200 Kg/cm ²
Temperature Range	8° to 100°C
Sensor Specifications	Hermetically sealed reed switch,
Contact Rating*	1A 230VAC 50 VA , SPDT 1NO+1NC
Hysteresis	Depending on switch value, 5 % of Full Scale value
Available Port Sizes	1/4", 3/8" and 1/2" BSP/NPT

Moc of wetted parts

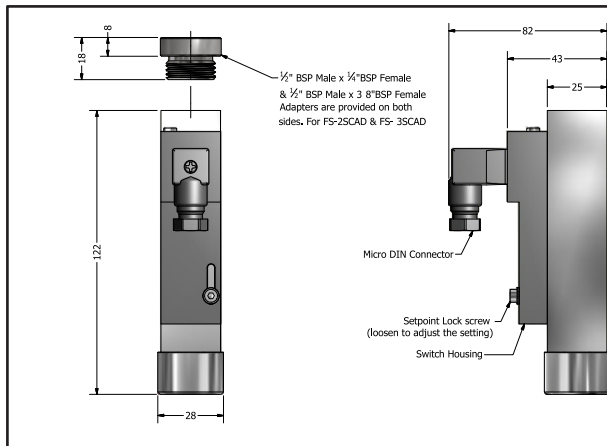
Housing	: SS316
Spring	: SS316
Float	: SS316
Fittings	: SS316

Wetted parts are those which come directly in contact with the process fluid
Note: Fluid should be very clean. Suspended particles may clog the flow switch which consequently affects the flow switch performance. Please take care of surge currents to avoid damage of Reed switch element. In such cases please apply R.C. (Resistor & Capacitor) network.

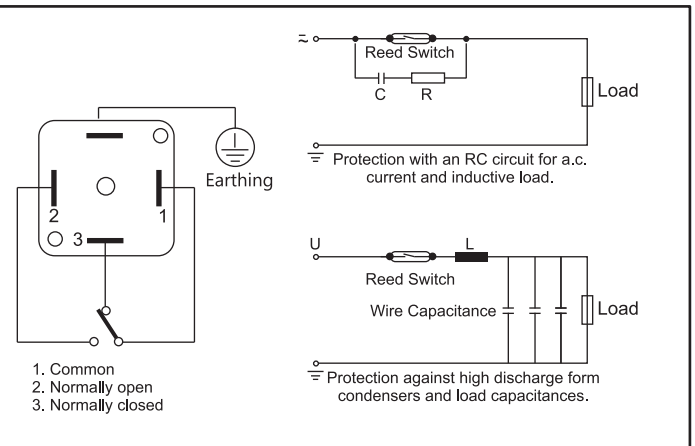
Range table

Line Size	Model No.	Recommended Max. Flow LPM of H ₂ O	Adjustable Range			W Max. mm	H Max. mm	L Max. mm	Weight Max. grams
			LPM of H ₂ O						
1/4" - 6mm	FS-2SCAD / FS-2NSCAD	15	0.5 - 5			30	90	138	550
3/8" - 10mm	FS-3SCAD / FS-3NSCAD	25	0.5 - 5	2 - 20	5 - 15	30	90	138	525
1/2" - 15mm	FS-4SCAD / FS-4NSCAD	30	0.5 - 5	2 - 20	5 - 15	30	90	122	475

GA Drawing



Electrical Connection



For # products GA drawing will be send on request

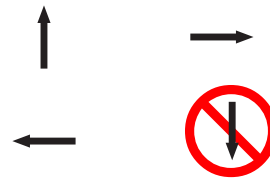
- Do not use excessive forces while fixing nozzles/ couplings. Use thread sealing for leak-tight joints. Do not hold switch in vice or wrench.
- Do not exceed electrical rating of the read switch. Use auxiliary relay or contactor for higher current rating and extra number of contacts.
- Do not exceed normal pressure rating of the switch for standard models. Consult manufacturer for higher system pressure.

Important for your order

For placing order please fulfill following requirements.

- Desired Flow Range.
- Fluid Characteristics (Physical & chemical properties)
- In case of lub-oils, viscosity must be indicated.
- Mounting Position
- MOC of piping used

Mounting instructions



Note: Flow Switch value may differ according to the type of installations.

[Please take care of surge currents to avoid damage of Reed switch element. In such cases please apply R.C. Network (Resistor & Capacitor)]. For detailed electrical installation please refer I&M manual.

Ordering information

BASIC MODEL	FS	2	S	C	A	D
PROCESS CONNECTION						
1/4" BSPF - 06NB		2				
3/8" BSPF - 10NB		3				
1/2" BSPF - 15NB		4				
1/4" NPTF - 06NB		2N				
3/8" NPTF - 10NB		3N				
1/2" NPTF - 15NB		4N				
MOC OF COUPLING						
SS316			S			
ELECTRICAL CONNECTOR						
Micro DIN 43650 connector				C		
Male M12 connector (24 VDC) #				M		
SET POINT: ADJUSTABLE					A	
ELECTRICAL RATING						
1 A 230 VAC/DC SPDT reed switch(50 VA)						D
2 X 1 A 230 VAC/DC SPDT reed switch(50 VA) #						D2

These to products are made to order, deliver time and costing will differ. Please consult local dealer.